APPLICATION INSTRUCTIONS

1. Purpose
1.1 The purpose of this document is to establish uniform procedures for installing TREMproof Amphibia membranes below slab-on-grade.
1.2 The techniques involved may require modifications to adjust to job site conditions. Tremco recognizes that site-specific conditions, weather patterns, contractor preferences, and membrane detailing may require deviation or alteration from these prescribed installation procedures. When such circumstances exist on a project, Tremco recommends that the local Tremco Sales Representative or Technical Services be contacted for assistance as required.

2. Scope
2.1 This document will provide the necessary instructions for the application of TREMproof Amphibia membranes to qualify for the manufacturer’s warranty.

3. Possible System Components
3.1 Recommended materials and their use are as follow. For more information on the following materials, please contact your local Tremco Sales Representative or visit our website for product specific data sheet and application instructions at www.tremcosealants.com.
   - TREMproof Amphibia Waterproofing Membrane is a self-healing, self-sealing and self-repairing sheet waterproofing membrane. This co-extruded, watertight membrane has three active layers—a watertight EPDM barrier, an active core with the ability to seal when penetrated, and an active barrier which seals the overlap and prevents lateral movement of water. Also, a non-woven fabric layer promotes the mechanical adhesion of the membrane to the concrete.
   - TREMproof® Safety Tape
   - TREMproof® Amphibia Grip Tape
   - Tremco 830 (or, 830 Clear in California)
   - AKTI-VO 201 Hydro-Reactive Mastic, or other approved material
   - Superstop Waterstop
   - Paraterm™ Bar
   - Parastick N Dry®
   - Paraprimer®
   - Paragrannular®
   - Paramastic®
   - Dymonic® 100 Sealant
   - TREMDrain® Series Drainage Mat

4. Limitations
4.1 Due to the variables present when installing shotcrete, all shotcrete applications must be first reviewed and approved by Tremco prior to installation.
4.2 TREMproof Amphibia should not be installed over stagnant or ponding water, snow, ice, frost, or contaminated substrates.
4.3 Reinforced concrete structures need to be designed to withstand hydrostatic pressures.

5. Storage
5.1 Store in a dry place protected for UV and humidity, preferably in a horizontal position. Do not double stack pallets.

6. Substrate Preparation
6.1 TREMproof Amphibia can be installed in conjunction with any of the four typical slab-on-grade systems with equal performance. This includes simple slab, mat slab, mat slab with protection slab, and mat slab with mud slab.
6.2 The grade should be prepared by either compacting the original earth, compacting a granular base or by installing a mud slab, meeting a minimum modified 85% proctor density per architect’s design.

7. Detail Work
7.1 All penetrations shall be secured prior to detailing. For single pipe penetrations, refer to Tremco details. Multiple penetrations shall be spaced a minimum of 6” (15 cm) apart to allow for proper detailing. If 6” (15 cm) spacing is not available, contact Tremco for a job-specific recommendation. If sealed or cored pipes are present, contact Tremco.
7.2 Following good concrete industry practices, a waterstop should be used at all construction cold joints. Install Superstop a minimum of 2” (5 cm) from face of wall or floor slab. It is recommended to apply Paraprimer to clean surface prior to adhering Superstop on vertical surfaces. Primer is also recommended for horizontal surfaces. Remove release paper from Superstop to expose adhesive. Butt ends together and fasten with nails and 1” (2.5 cm) washer every 12” (30 cm) O.C. if installing in keyways. When attaching to thru wall or slab penetrations, please consult Tremco’s library of detail drawings; some applications require secondary fastening (i.e.—a wire or zip tie securing the Superstop around the penetration if applicable).

8. Membrane Application
8.1 TREMproof Amphibia shall be installed with the white, non-woven “fleece” fabric layer facing the installer. Pre-cut the membrane to the size required—the sheets can be folded and cut in any direction.
8.2 All seams should be overlapped a minimum of 2” to 4” (5 cm to 10 cm). The membrane features a red printed dashed line, which is 2” (5 cm) from the sheet edge for quick reference when installing. Installation of Tremco 830 (or, 830 Clear in California) sealant between the overlaps will ensure the highest performing seam. For applications where Amphibia is being installed directly over soil or granular fill, this seam treatment is mandatory. For applications where Amphibia is being installed over a mud slab, this seam treatment is highly recommended. The seam shall then be compressed with a 2” x 2” (5 cm x 5 cm) steel seam roller using pressure sufficient to adequately flatten/spread the sealant bead. The TREMproof Amphibia Grip Tape should be adhered to the white, non-woven “fleece” fabric layer facing the installer and pressed or rolled down to ensure full adhesion. Care must be taken to...
minimize wrinkles, fishmouths, or other irregularities in the adhered tape to maximize seam performance.

8.3 Seal around penetrations with a 1”x1” (2.5cm x 2.5cm) cant bead of AKTI-VO 201, or other approved water-swelling sealant or mastic. Contact Tremco before using products other than AKTI-VO 201.

8.4 Terminate around perimeter or tie-in to wall application of system. Refer to Tremco standard details.

8.5 If a drainage mat is required, install the proper TREMDrain drainage mat. Contact your Tremco Sales Representative or Technical Services for assistance.

8.6 Concrete Placement

8.8.1. Repair any damaged TREMproof Amphibia prior to concrete placement, after steel reinforcement is tied in place. Since damage severity and type can vary greatly from job to job, please contact your local Tremco Sales or Technical representative for a case-specific repair recommendation.

8.8.2. Concrete to be placed should not be dropped from higher than 4’ (1.2M) directly on TREMproof Amphibia. Tremco highly recommends that concrete be placed or pumped onto membrane as close to the surface as possible to minimize the chance of damage.